

# **Legal and Ethical Indicators for Adaptive Public Health System Response (LEIP)**

**Keeneland Conference  
April 21, 2010**

**PUBLIC HEALTH ADAPTIVE SYSTEMS STUDIES**

***UNIVERSITY OF PITTSBURGH  
PREPAREDNESS & EMERGENCY RESPONSE RESEARCH  
CENTER***

# LEIP Team

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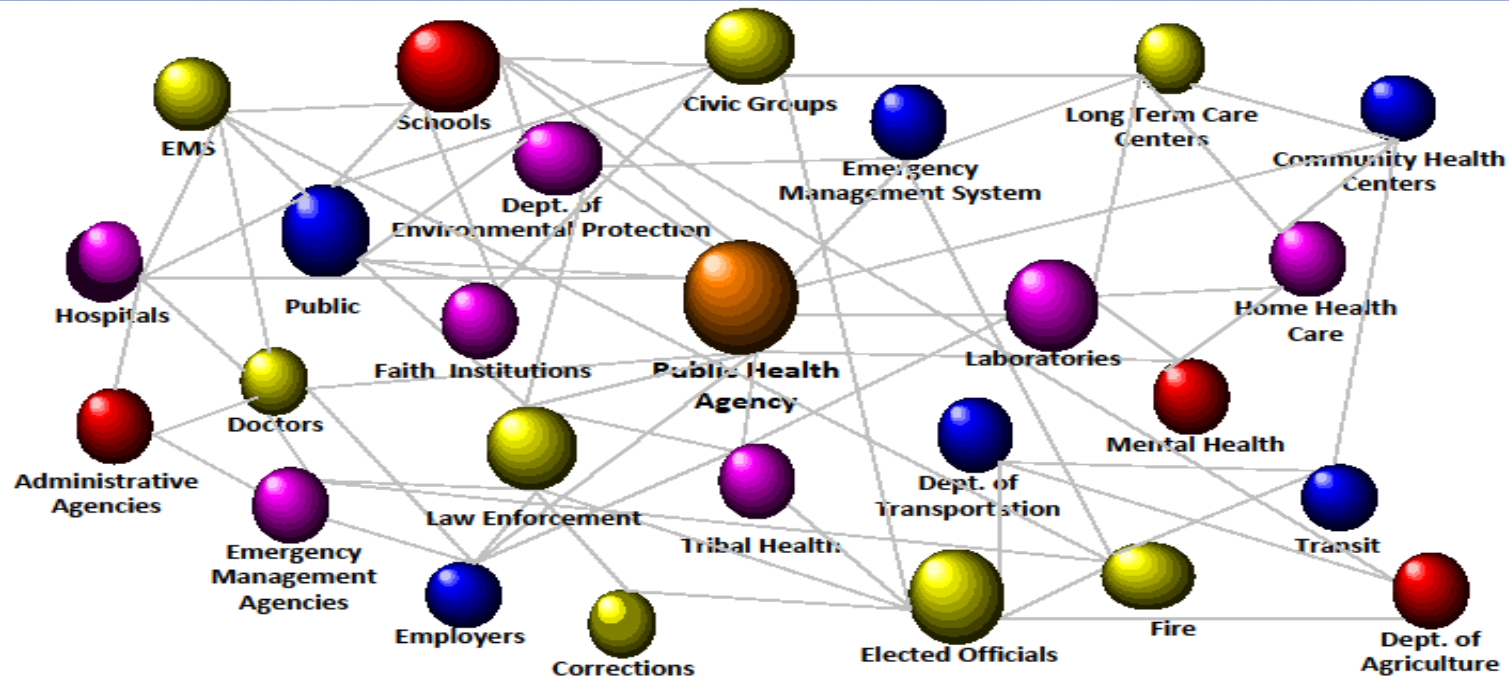
# Research question

How do laws and ethical issues impact the Public Health System's capacity to plan for respond to and recover from emergencies with public health consequences?

# Methodology:

## 1. Define the Public Health System

### Public Health System\*



\*Adapted from materials originally developed by the National Public Health Performance Standards Program

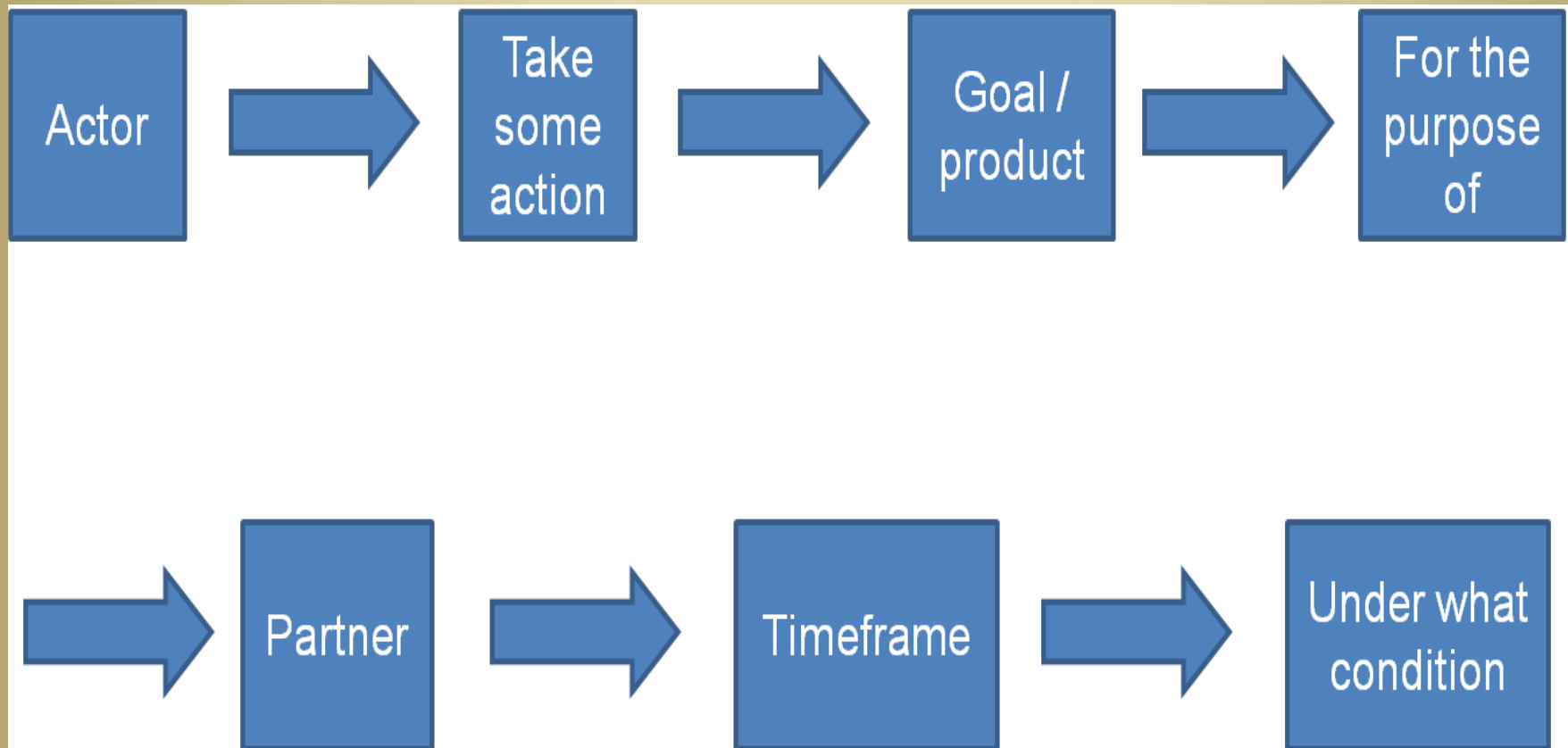
# Methodology:

## 2. Conduct legal research

<b>Table 1: Legal Search Terms for Public Health System Agents</b>	
<b>Public Health System (PHS) Agent</b>	<b>Search Term</b>
Civic	"business or civic or fraternal or charit!
Community Health	"community health"
Corrections	"correction or 'adult offender' or 'juvenile offender'"
Department of Transportation and Transit	"transportation or transit"
Emergency Medical Service	"emergency medical service" or "emergency medical system"
Faith Institution	"faith or relig! or church"
Governmental Public Health Agency	"'board of health' or 'health department' or department of health"
Law Enforcement	"'law enforcement' or 'police'"
Long Term Care Facility	"'skilled nursing' or 'intermediate car' or 'assisted living'"
Mental Health Service	"mental or behavioral health"
School	"school"
Senior Elected Official Local, State and Federal	"governor or mayor or 'political subdivision' or 'county commissioner' or 'county executive'"
<b>Emergency Preparedness and Response Search Terms:</b> Disaster, Emergenc!, Hazard!, "mutual assist!", "mutual aid", Preparedness, Terror!, Warn! , Infect!, Communicable, Contagious, Transmit!, Pandemic, Epidemic	

# Methodology:

## 3. Code text of relevant laws



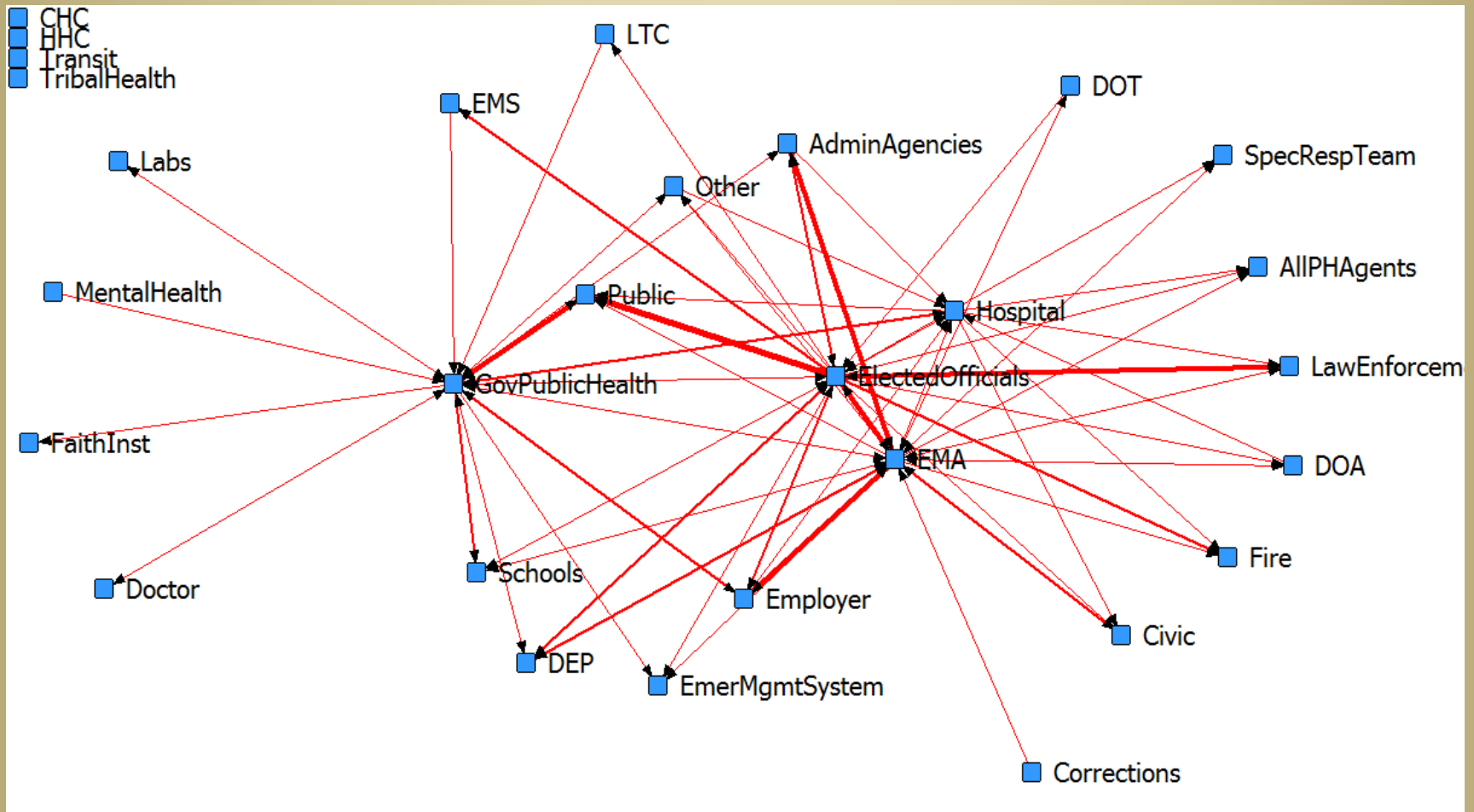
Methodology:  
4. Conduct network analysis



# Pennsylvania – 4 Nodes :

Emergency Management Agency, Governmental Public Health,  
Hospitals, and Elected Officials

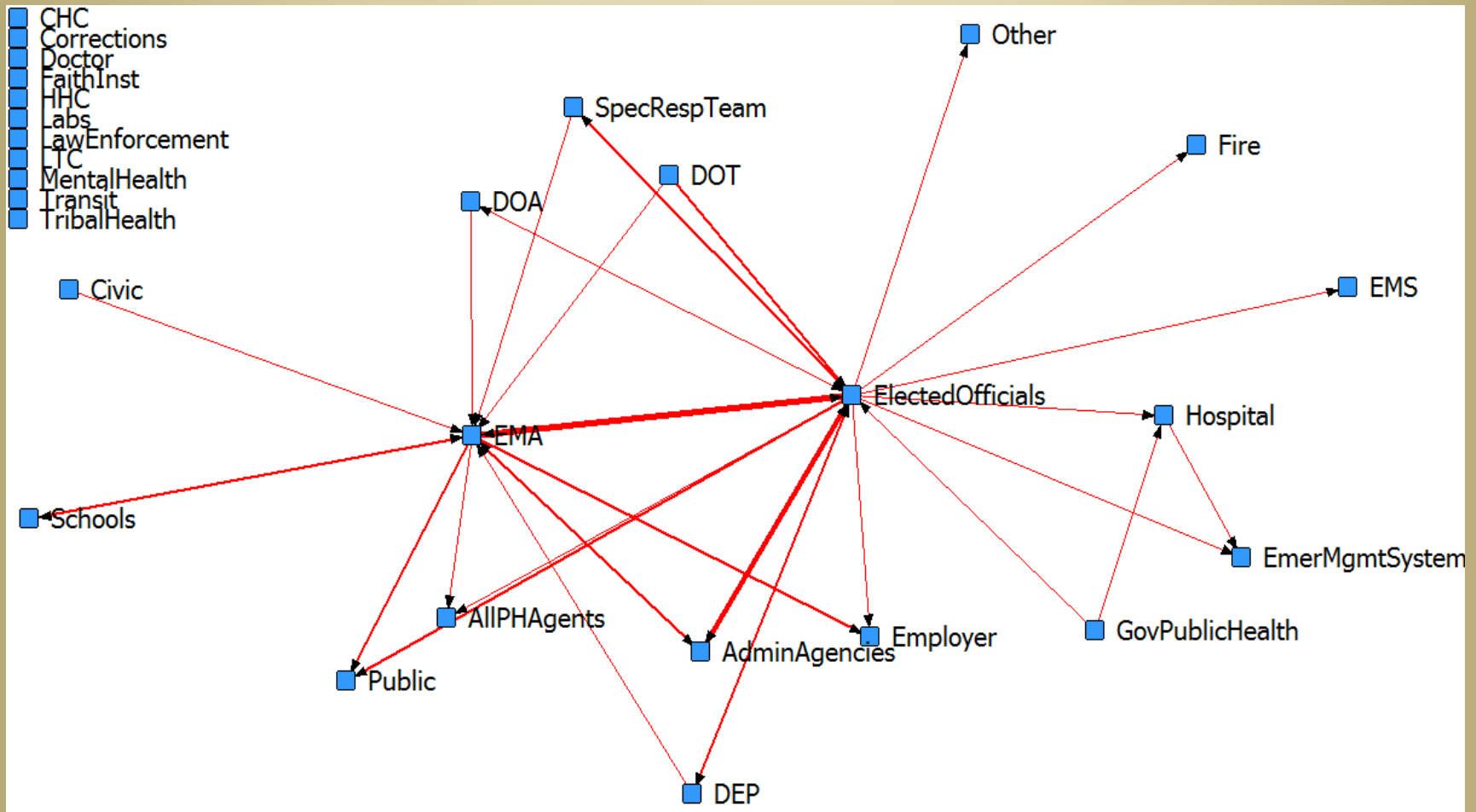
## Purpose: Emergency Response



# Pennsylvania – 4 Nodes:

Emergency Management Agency, Governmental Public Health,  
Hospitals, and Elected Officials

## Purpose: Emergency Recovery

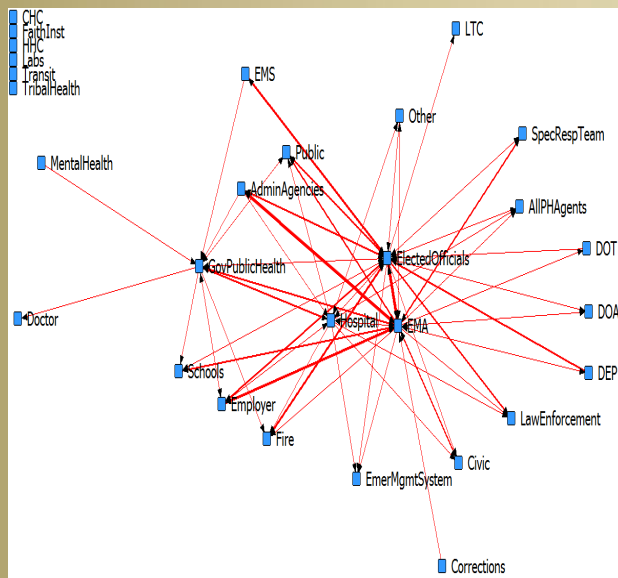


# Pennsylvania – 4 Nodes :

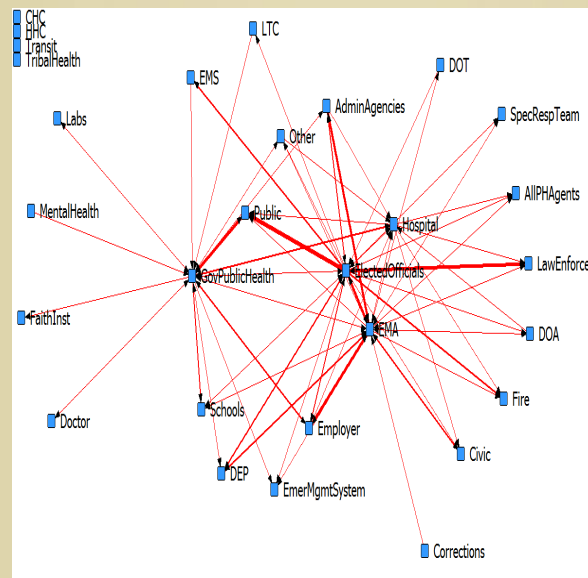
Emergency Management Agency, Governmental Public Health, Hospitals, and Elected Officials

Purpose:

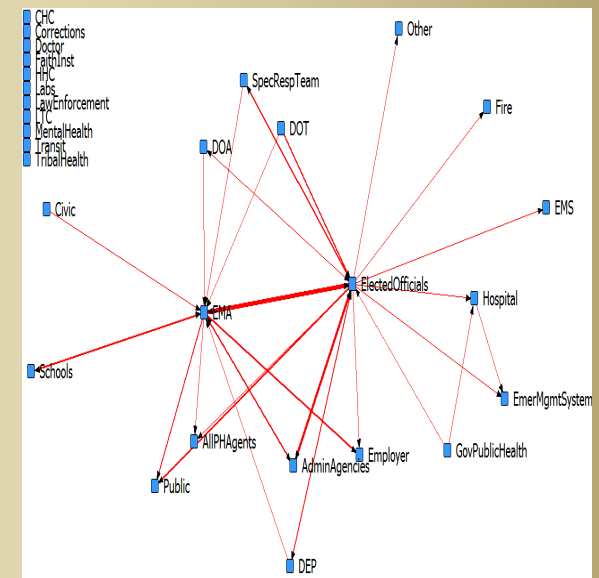
## Emergency Preparedness



## Emergency Response



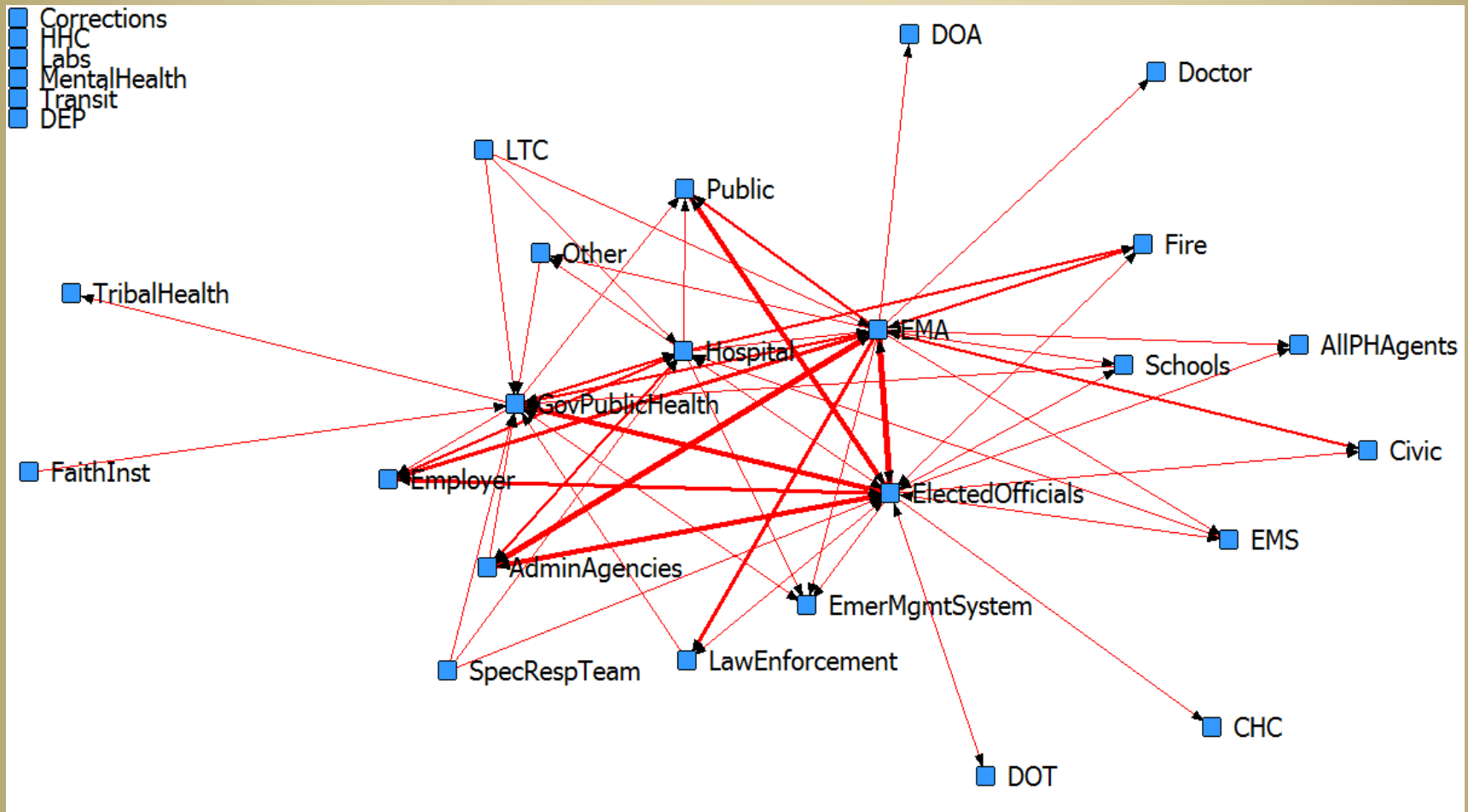
## Emergency Recovery



# California – 4 Nodes:

Emergency Management Agency, Governmental Public Health,  
Hospitals, and Elected Officials

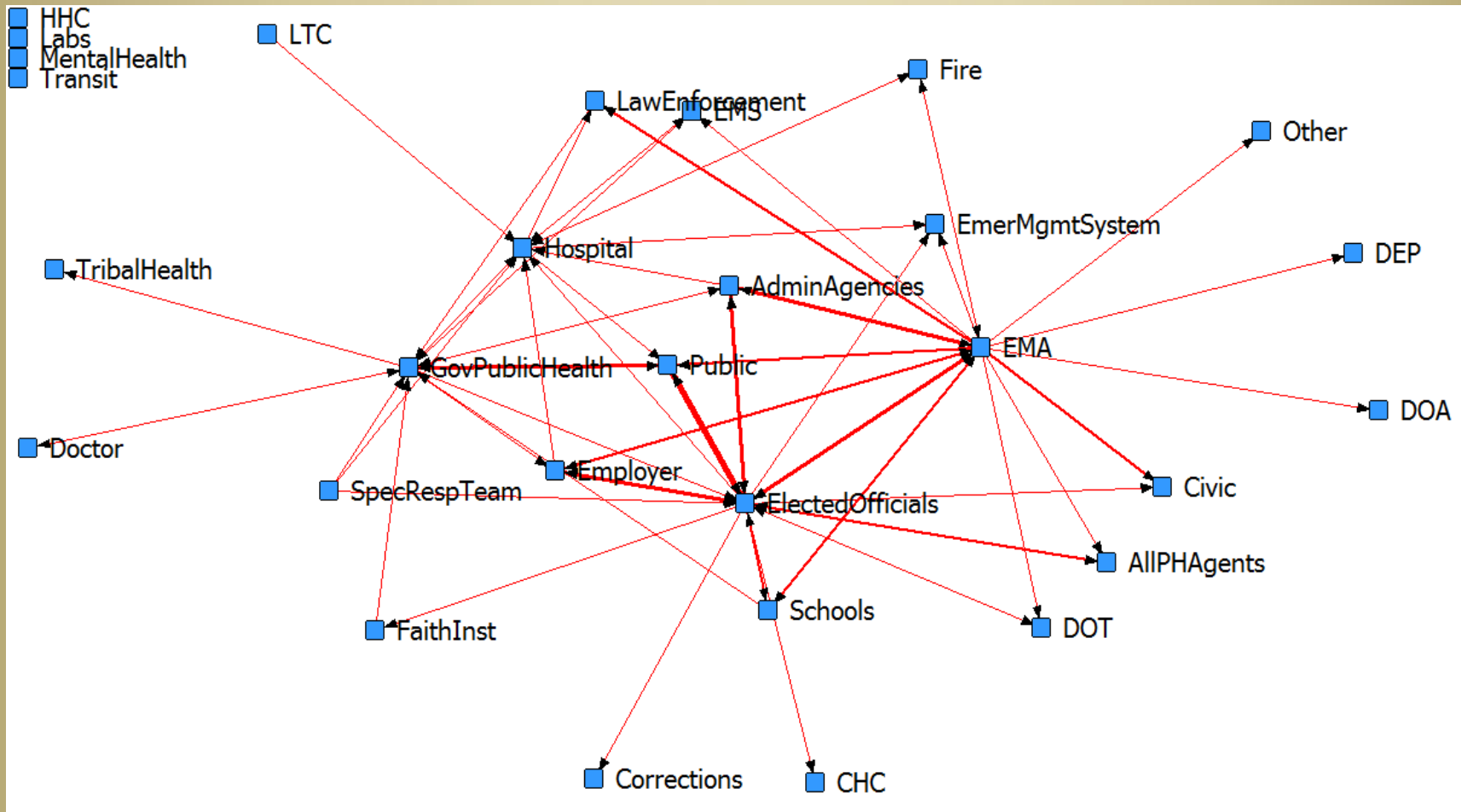
Purpose: Emergency Preparedness



# California – 4 Nodes:

Emergency Management Agency, Governmental Public Health,  
Hospitals, and Elected Officials

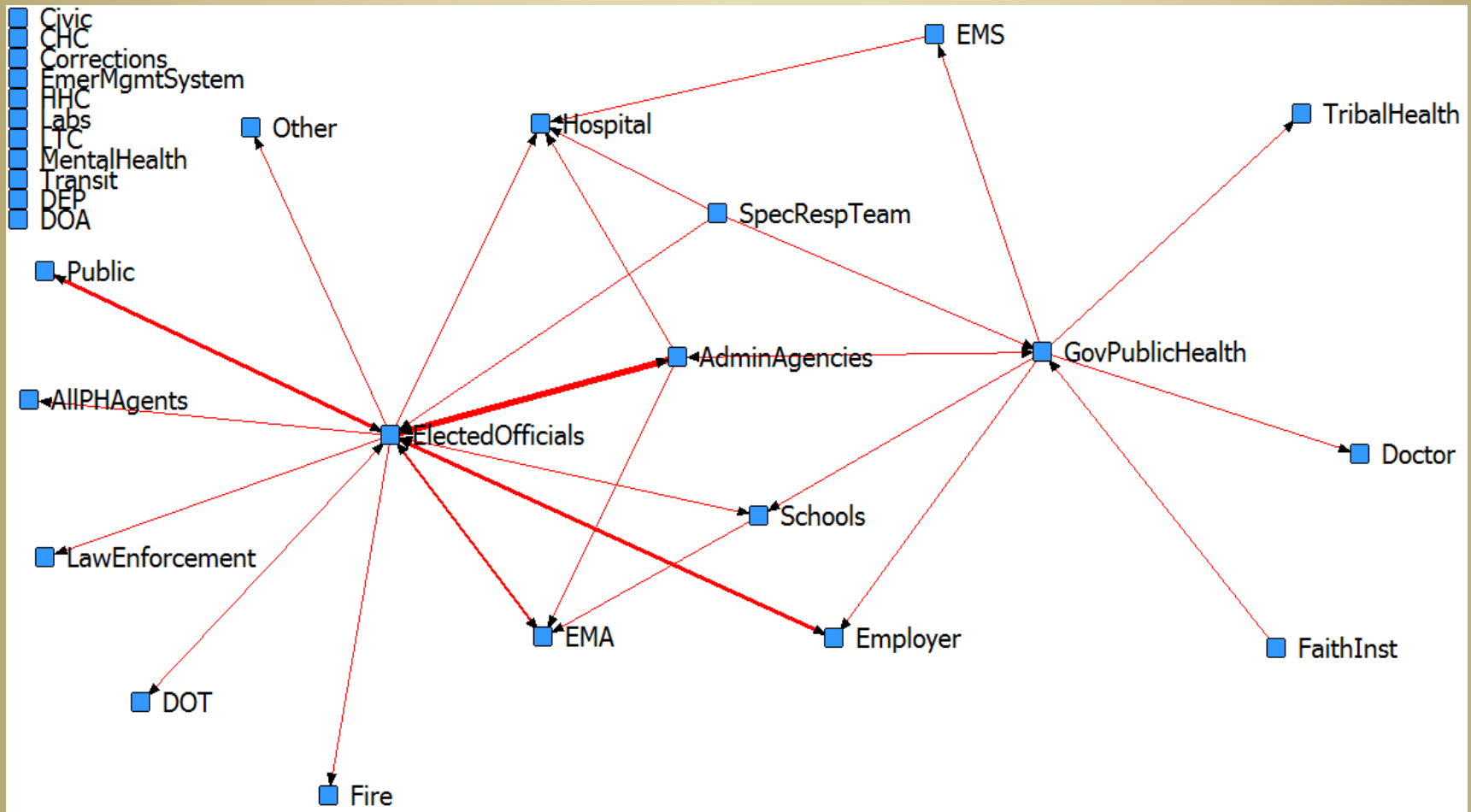
Purpose: Emergency Response



# California – 4 Nodes:

Emergency Management Agency, Governmental Public Health,  
Hospitals, and Elected Officials

Purpose: Emergency Recovery



# California – 4 Nodes:

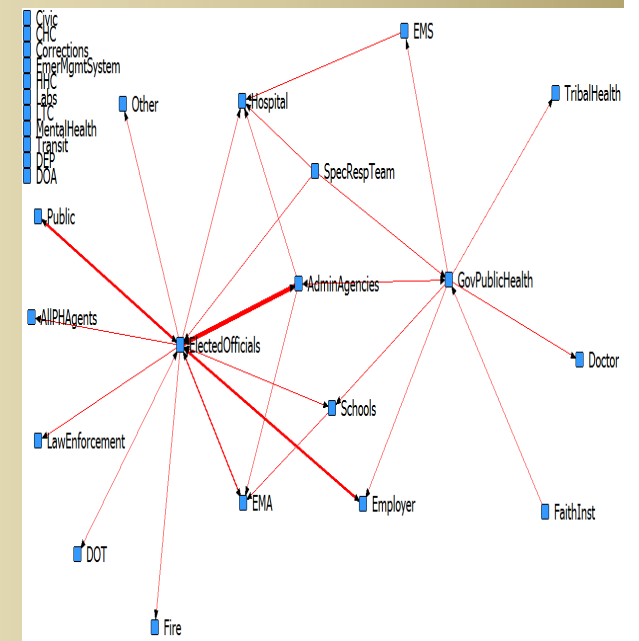
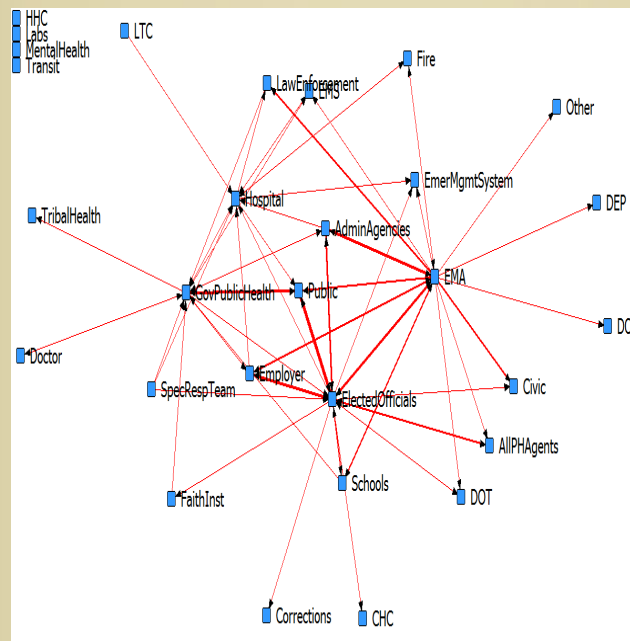
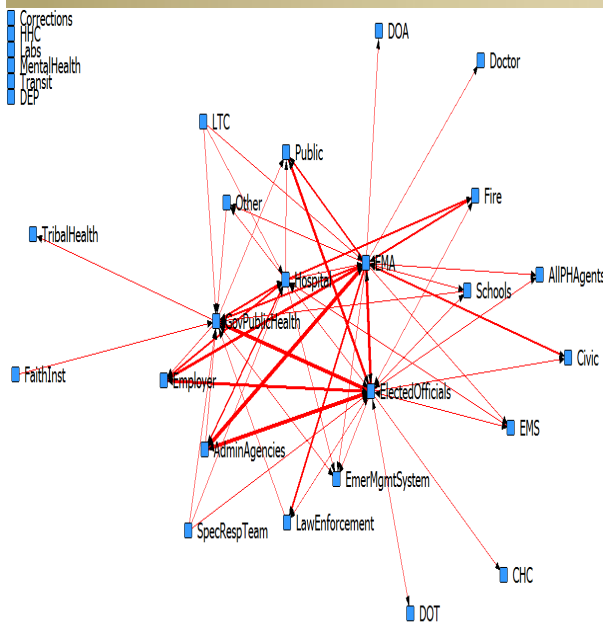
Emergency Management Agency, Governmental Public Health, Hospitals, and Elected Officials

Purpose:

Emergency Preparedness

Emergency Response

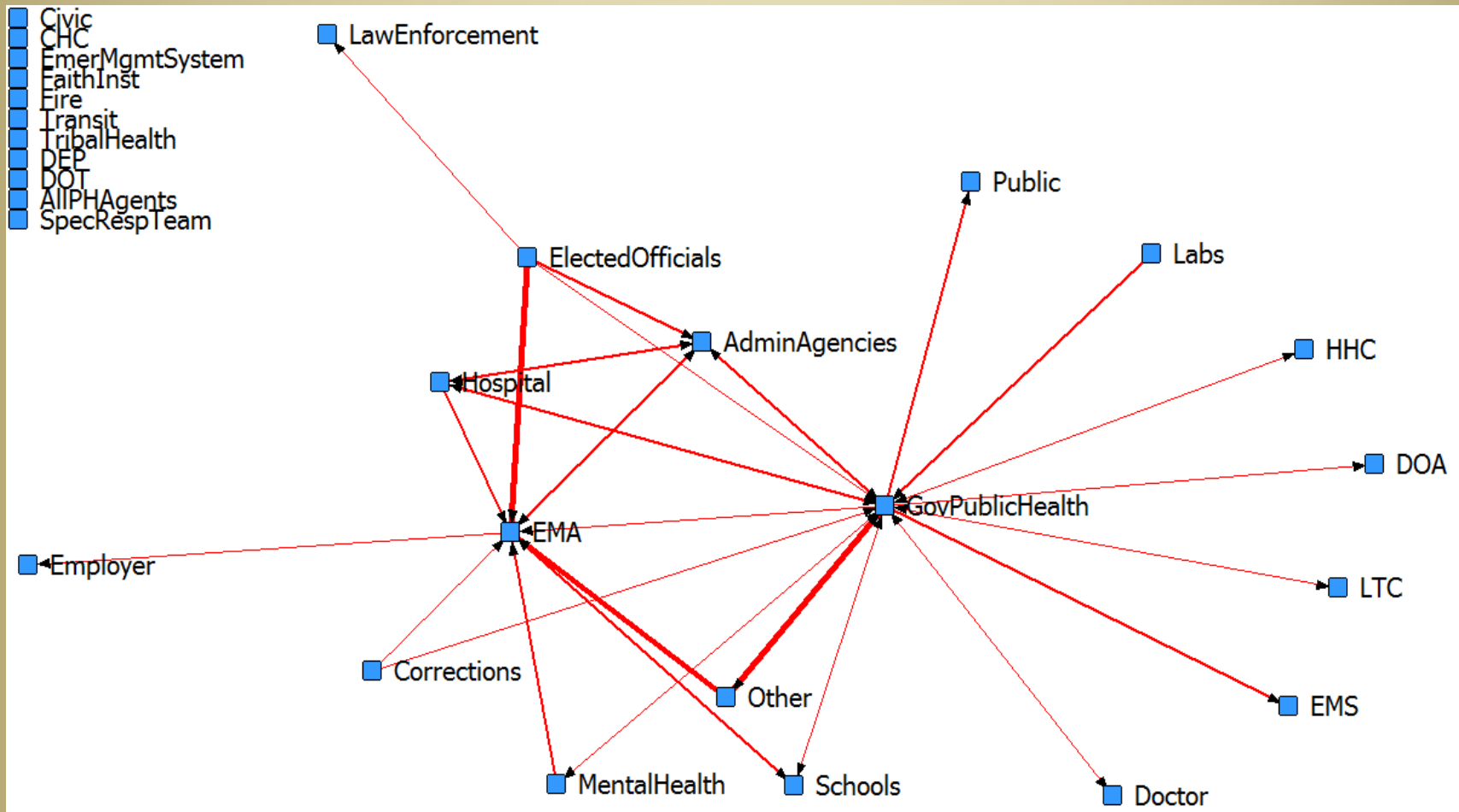
Emergency Recovery



# Georgia – 4 Nodes:

Emergency Management Agency, Governmental Public Health,  
Hospitals, and Elected Officials

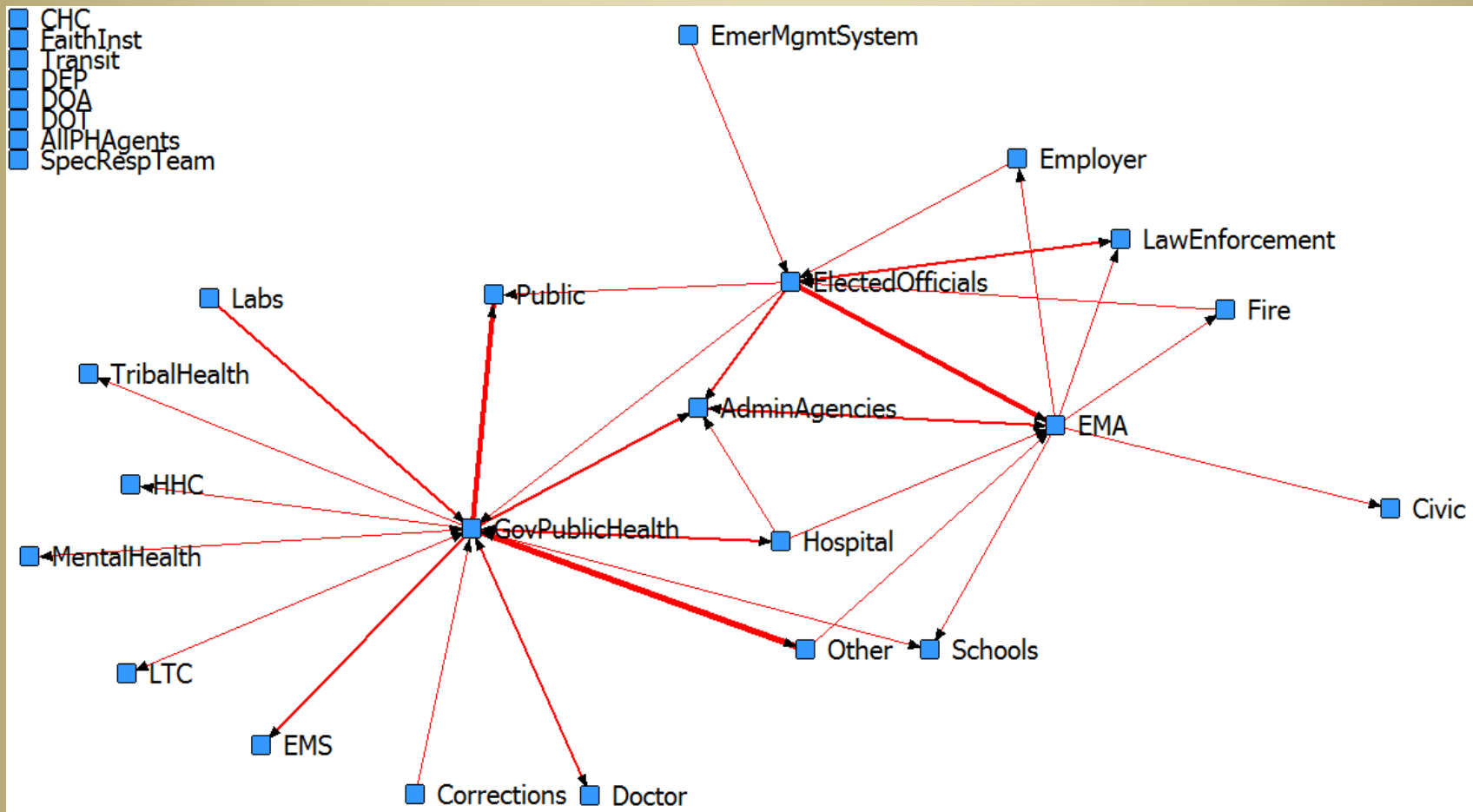
Purpose: Emergency Preparedness



# Georgia – 4 Nodes:

Emergency Management Agency, Governmental Public Health,  
Hospitals, and Elected Officials

Purpose: Emergency Response



## Georgia – 4 Nodes:

Emergency Management Agency, Governmental Public Health,  
Hospitals, and Elected Officials

Purpose: Emergency Recovery

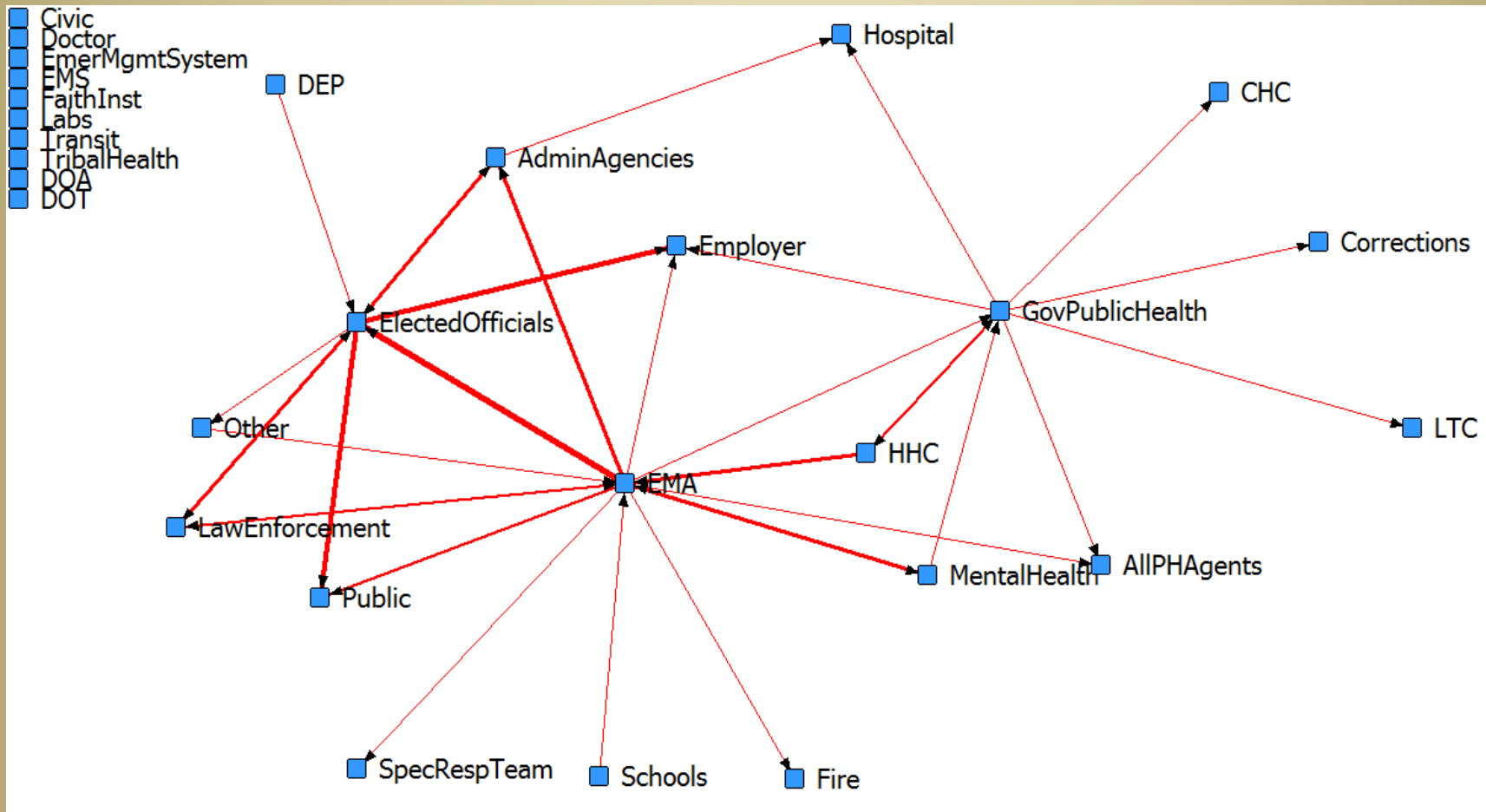
No relationships exist within  
these four nodes







# Florida – 4 Nodes: Emergency Management Agency, Governmental Public Health, Hospitals, and Elected Officials Purpose: Emergency Recovery

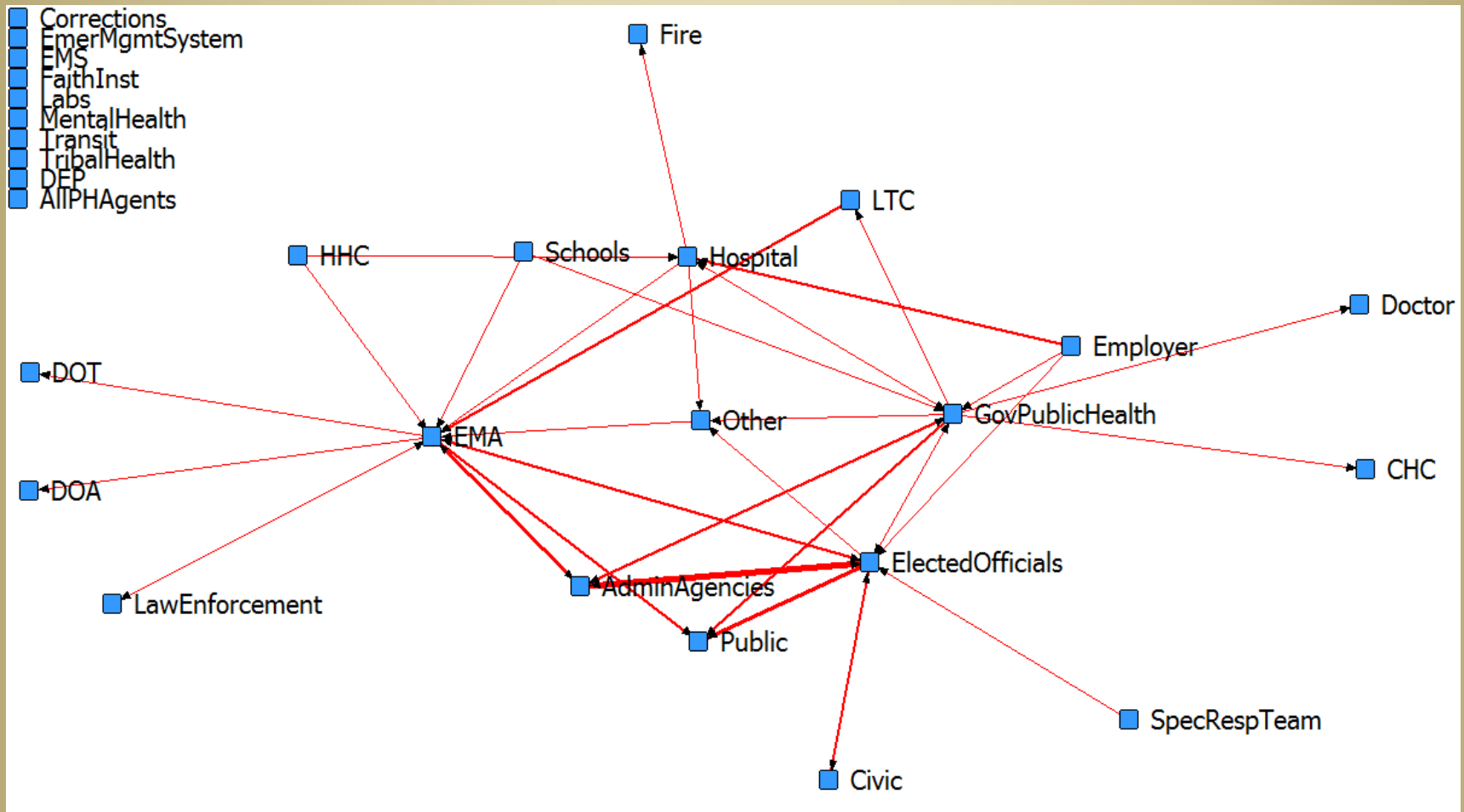




# Texas – 4 Nodes:

Emergency Management Agency, Governmental Public Health,  
Hospitals, and Elected Officials

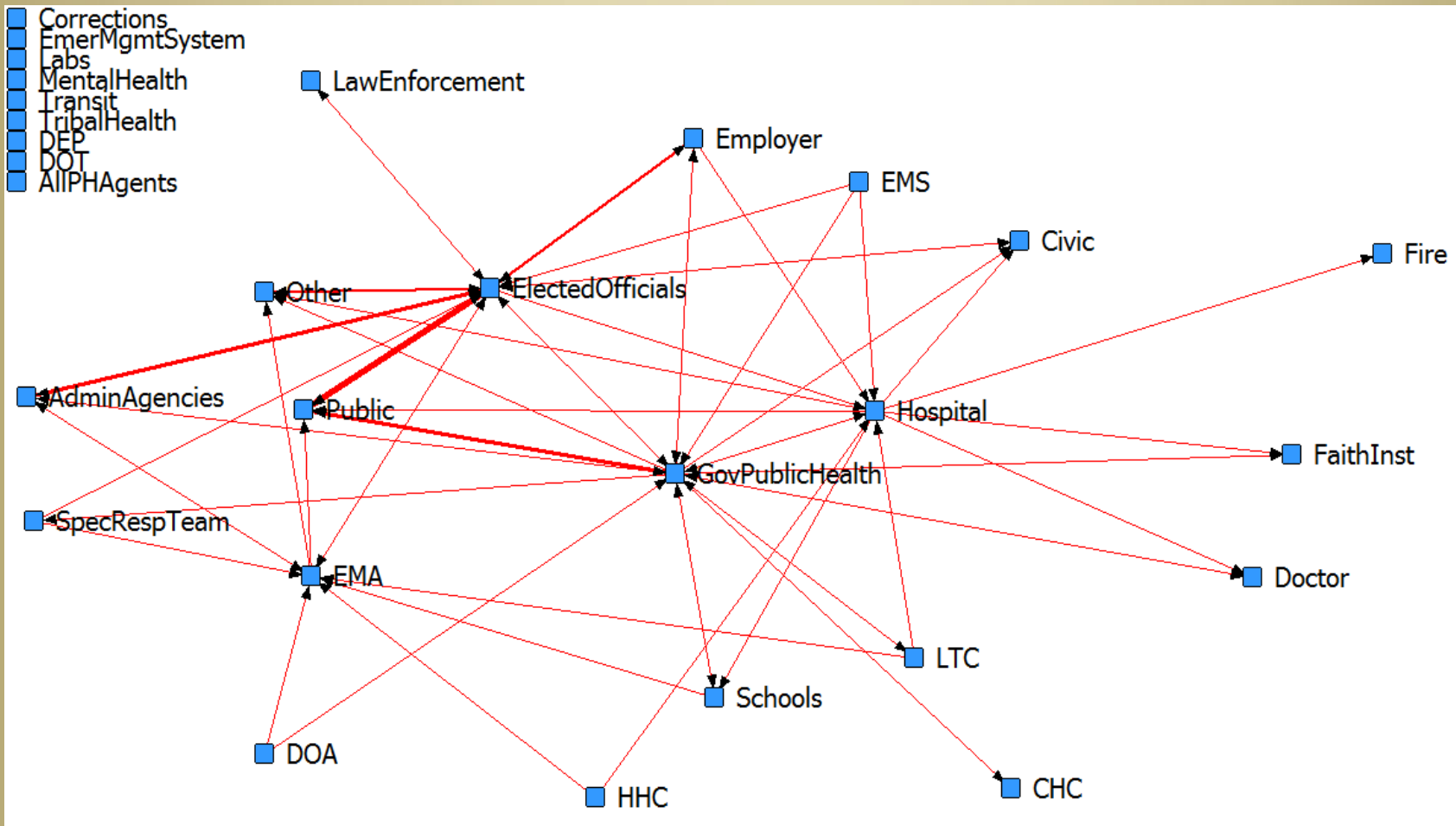
Purpose: Emergency Preparedness



# Texas – 4 Nodes:

Emergency Management Agency, Governmental Public Health,  
Hospitals, and Elected Officials

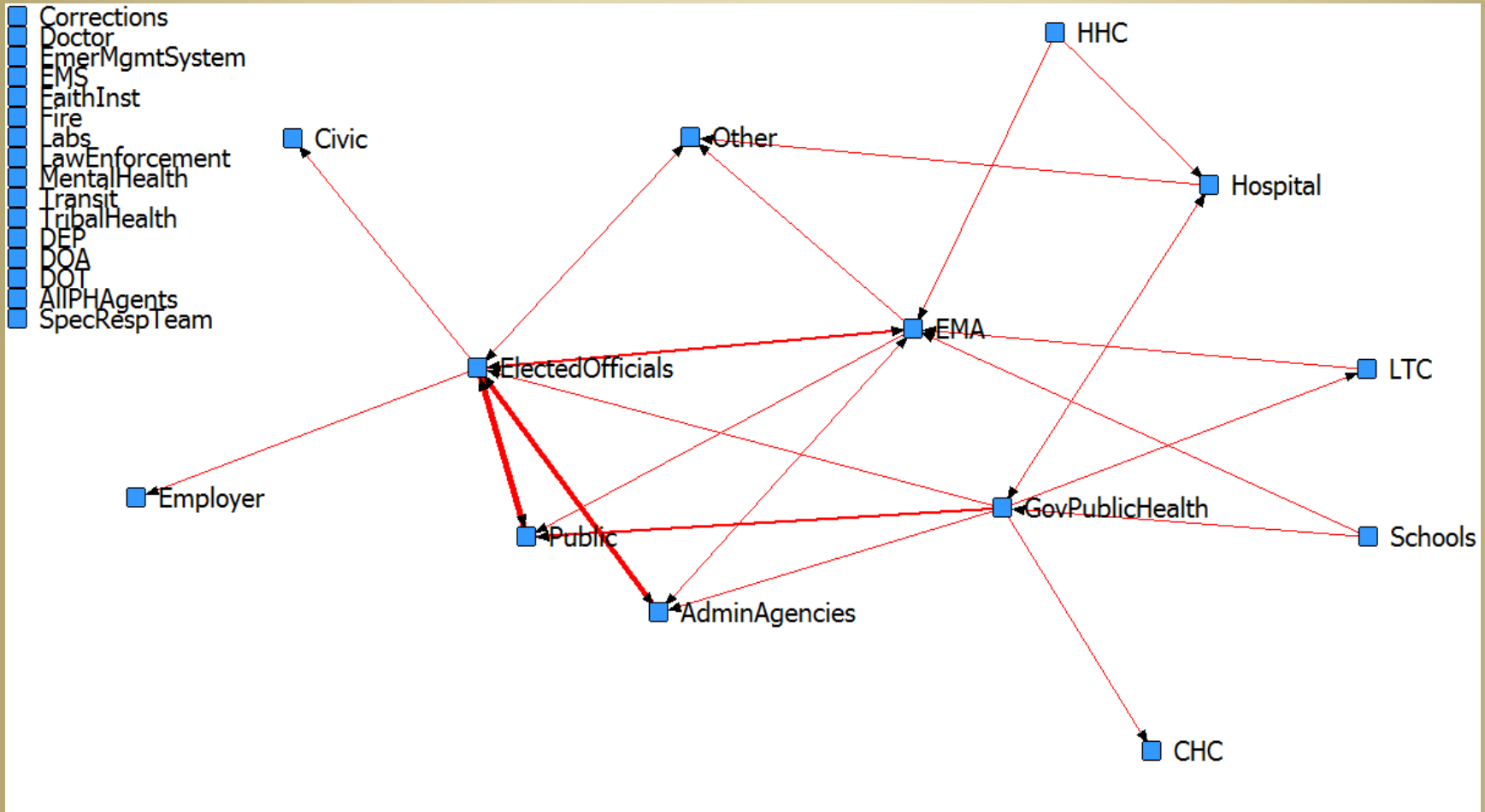
Purpose: Emergency Response



# Texas – 4 Nodes:

Emergency Management Agency, Governmental Public Health,  
Hospitals, and Elected Officials

Purpose: Emergency Recovery

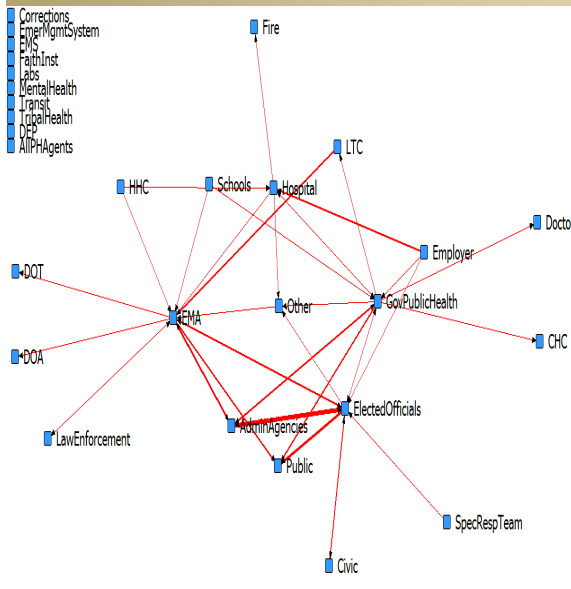


# Texas – 4 Nodes:

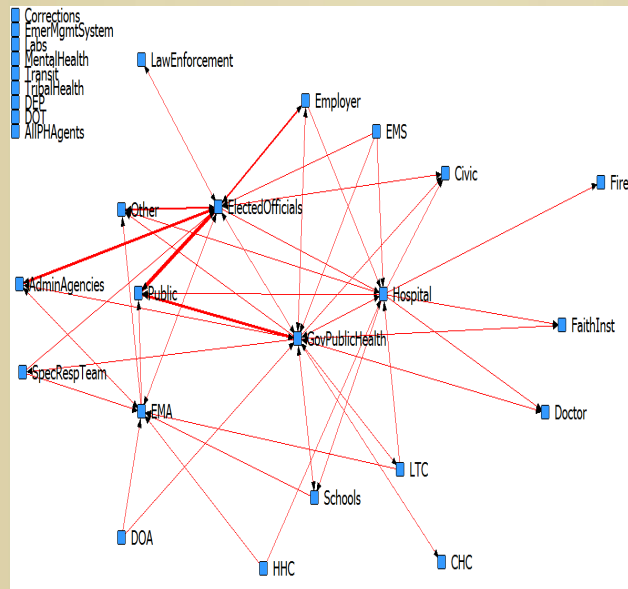
Emergency Management Agency, Governmental Public Health, Hospitals, and Elected Officials

Purpose:

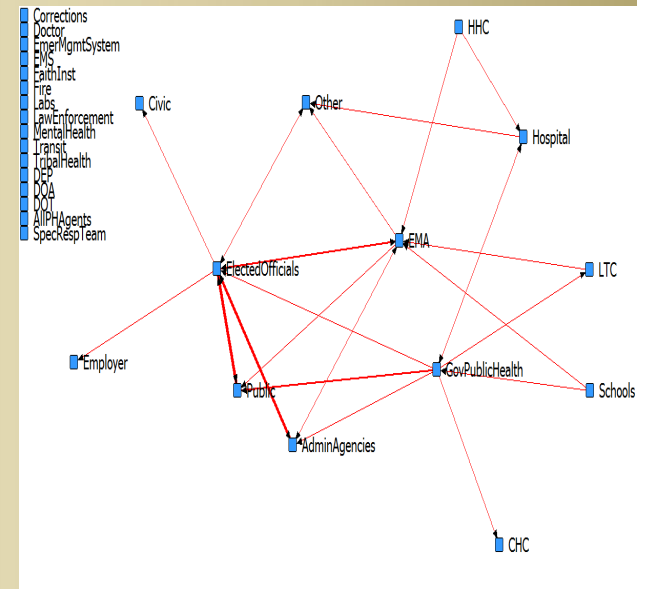
## Emergency Preparedness



## Emergency Response

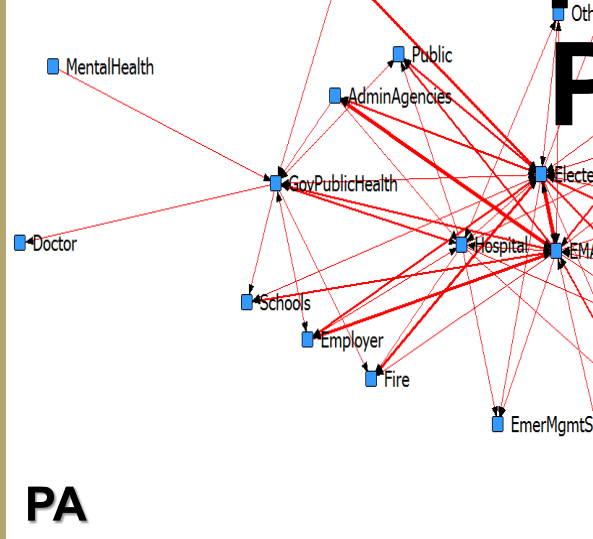


## Emergency Recovery

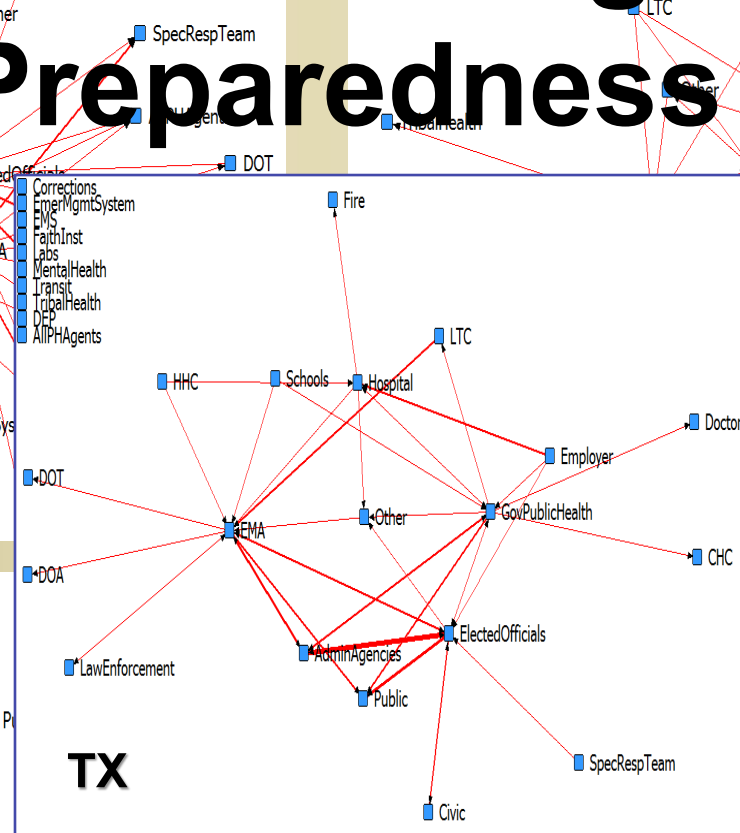


# Purpose: Emergency Preparedness

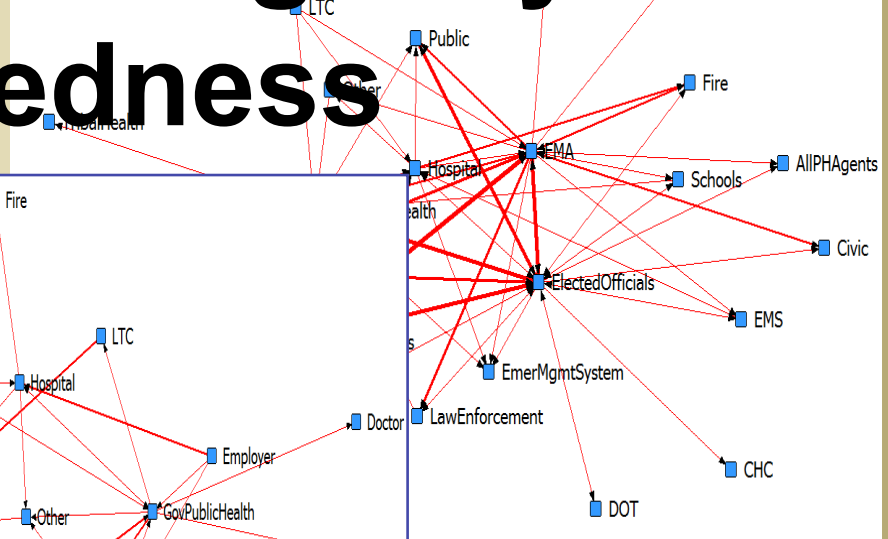
- CHC
- FaithInst
- HHC
- Labs
- Transit
- TribalHealth



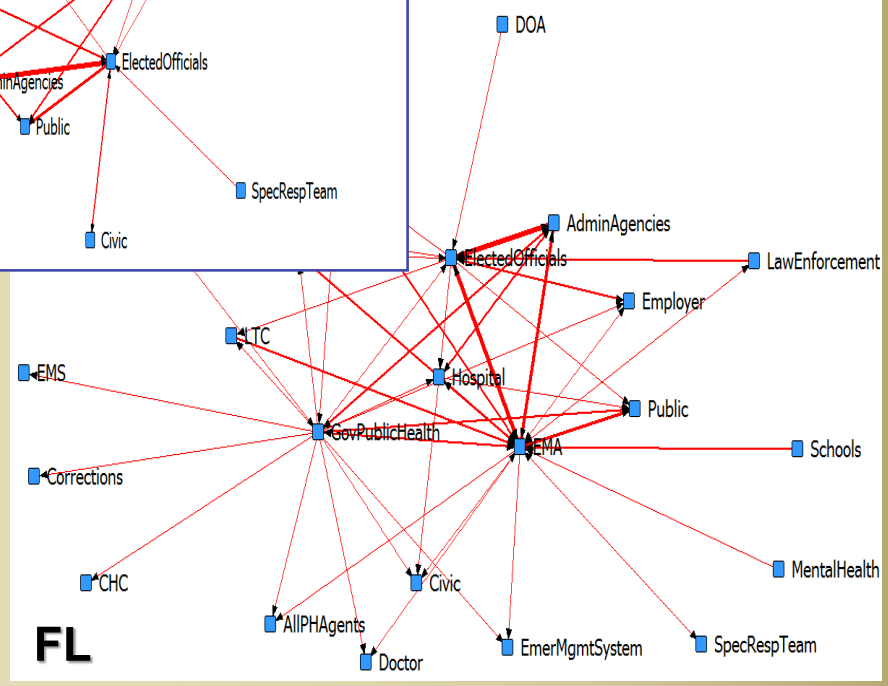
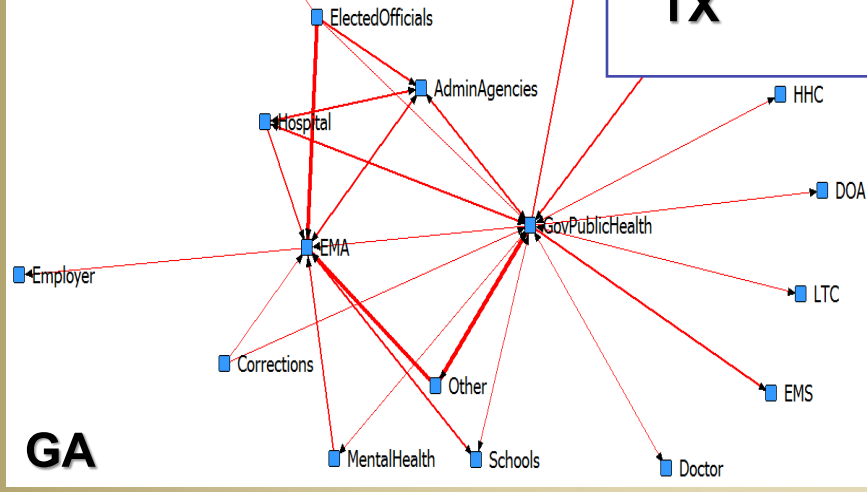
- LTC
- Other
- SpecRespTeam
- DOT



- Corrections
- HHC
- MentalHealth
- Transit
- Del



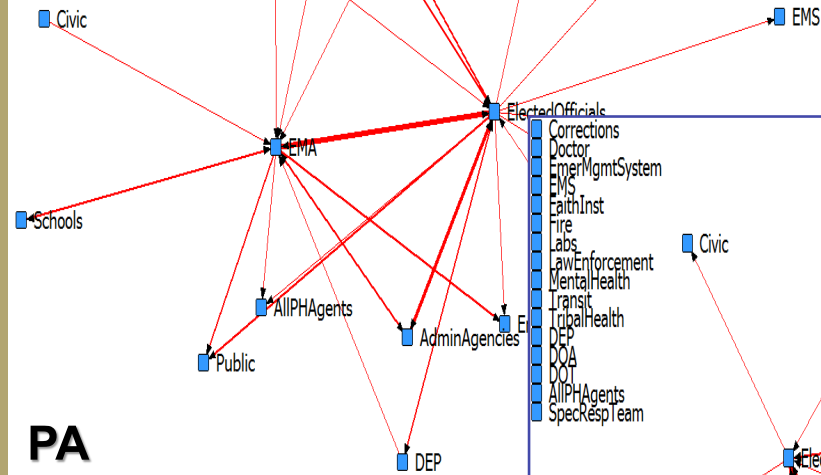
- Civic
- CHC
- EmerMgmtSystem
- FaithInst
- Fire
- Transit
- TribalHealth
- DOT
- AllPHAgents
- SpecRespTeam



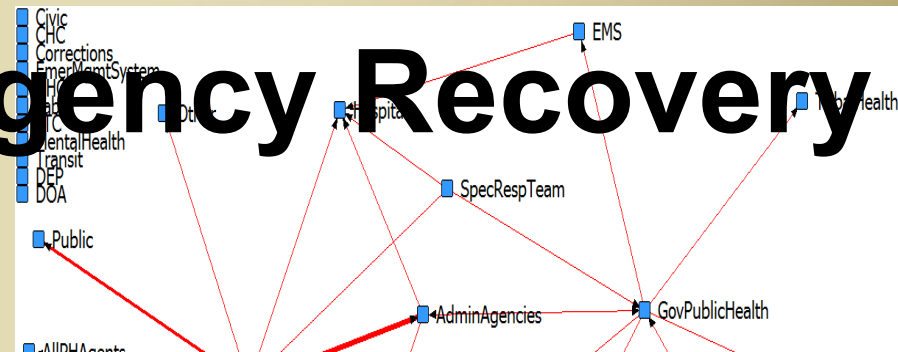


# Purpose: Emergency Recovery

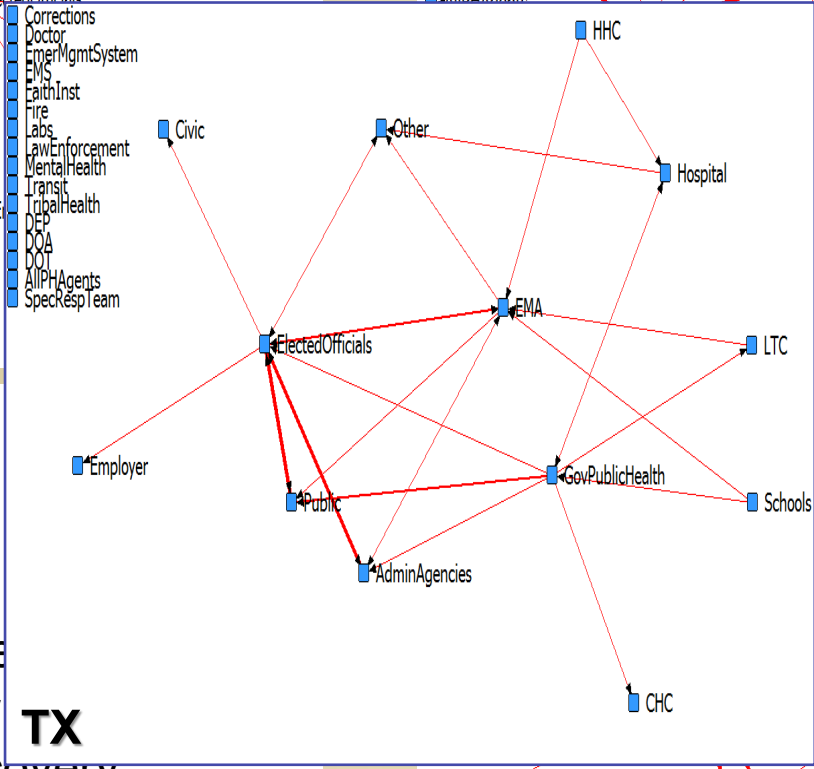
- CHC
- Corrections
- Doctor
- FaithInst
- HHC
- Labs
- LawEnforcement
- LTC
- MentalHealth
- Transit
- TribalHealth



PA

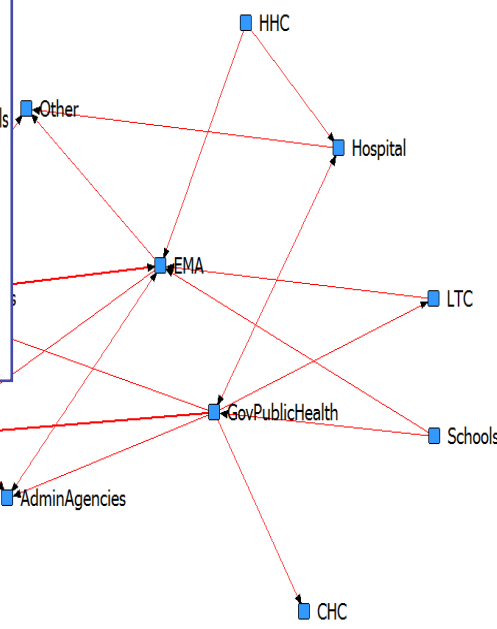


FL



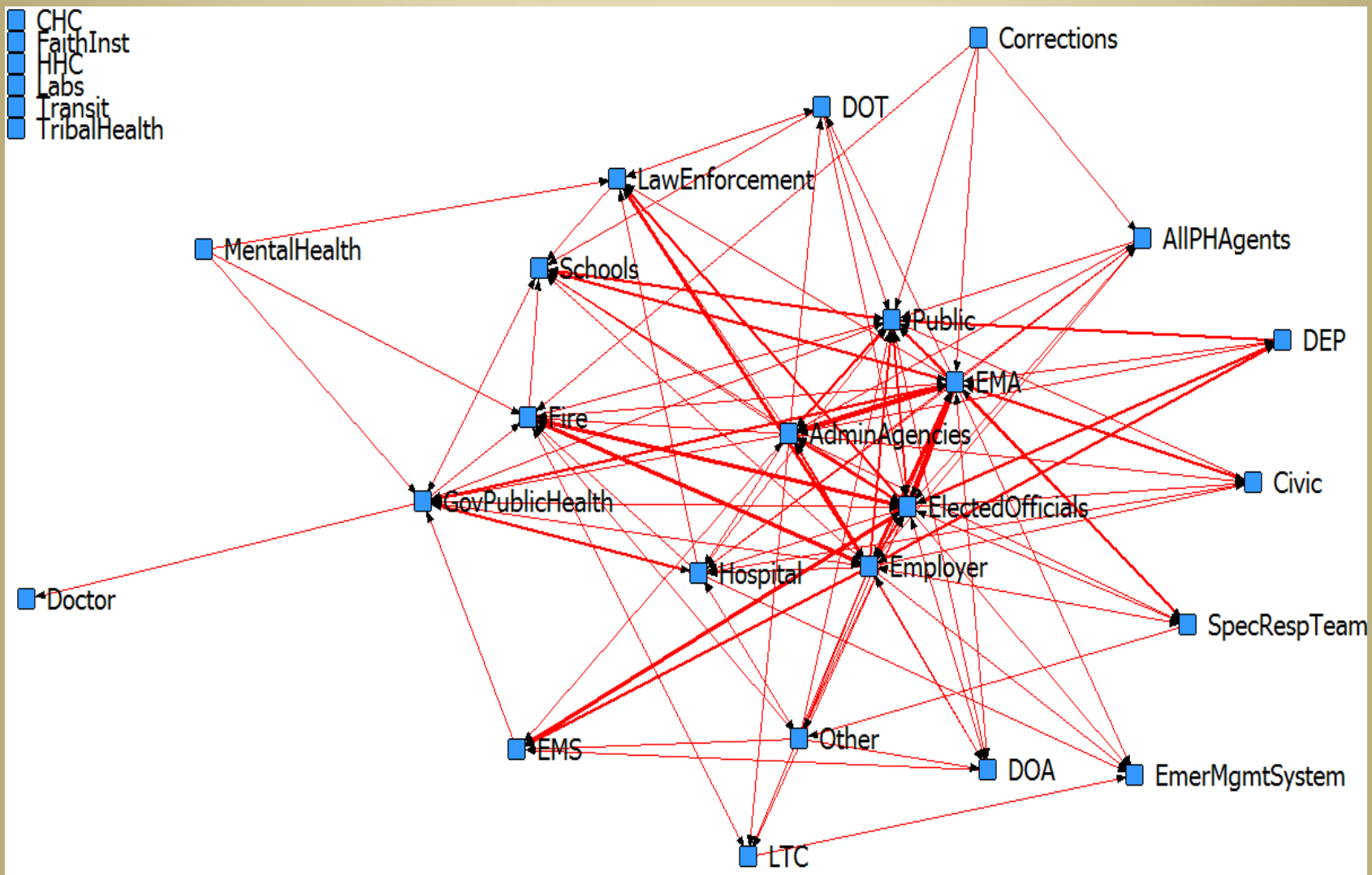
No legally directed relationships between these four emergency recovery

GA



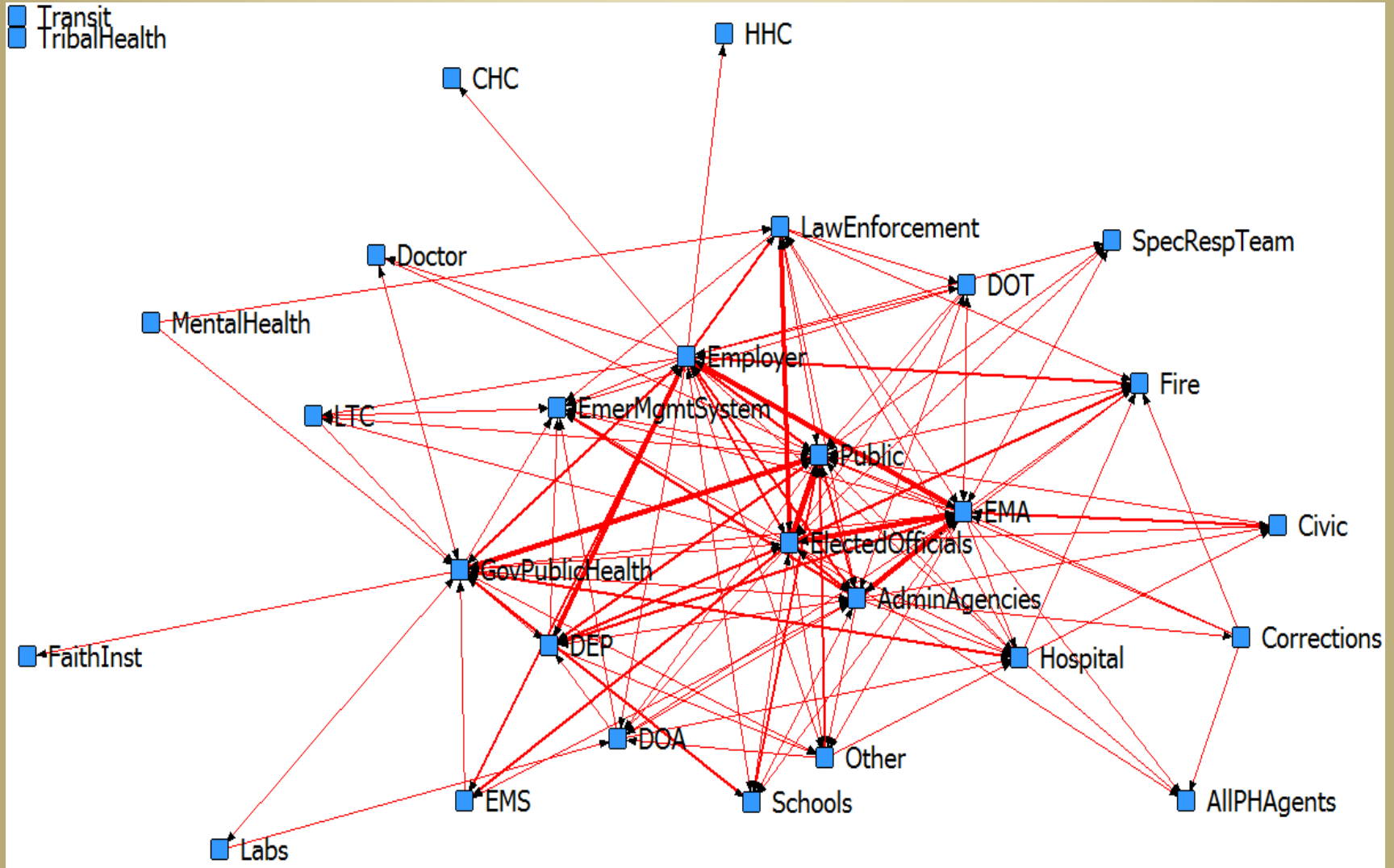
# Pennsylvania – Full Network

## Purpose: Emergency Preparedness



# Pennsylvania – Full Network

## Purpose: Emergency Response



# Top Ranking Goals/Product by State

	<b>Pennsylvania</b>	<b>California</b>	<b>Florida</b>	<b>Georgia</b>	<b>Texas</b>
1	Plan	Grant Programs/ Funding	Plan	Plan	Plan
2	Grant Programs/ Funding	Plan	Procedures	Rules/Regulations	Grant Programs/ Funding
3	Public Information/ Information	Rules/ Regulations	Public Information/ Information	Epidemic/Pandemic/ Infectious Disease	Disaster Emergency
4	Personnel	Personnel	Personnel	Whatever Is Needed	Rules/Regulations
5	Rules/Regulations	Taxes	Facilities	Disaster Emergency	Response
6	Procedures	Training Program	Services	Grant Programs/ Funding	Services
7	Report	Equipment	Rules/Regulations	Mutual Aid Agreement/ System	Epidemic/Pandemic/ Infectious Disease
8	Training Program	Services	Response	Immunizations	Equipment
9	Technical Assistance/ Assistance	Procedures	Training Program	Training Program	Personnel
10	Communication System	Spill/Discharge	Evacuation/Closure	Emergency Management Agency	Whatever Is Needed

# Acknowledgements

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# Thank you

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